



ESL 125-12FT



Application

- Telecom
- Communication Equipment
- Control Equipment
- Medical Equipment
- UPS
- Emergency Power System

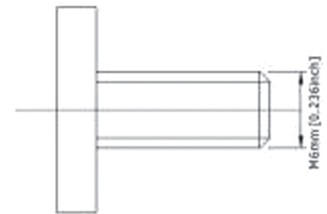
General Features

- Easy maintenance and installation
- No need for extra (wrench space) above battery
- Sealed and maintenance free operation
- Non-Spillable construction design
- ABS containers and covers(UL94HB, UL94V-0) optional
- Safety valve installation for explosion proof
- Maximized energy density for installation in relay rack trays
- High quality and high reliability
- Exceptional deep discharge recovery performance
- Flexibility design for multiple install positions

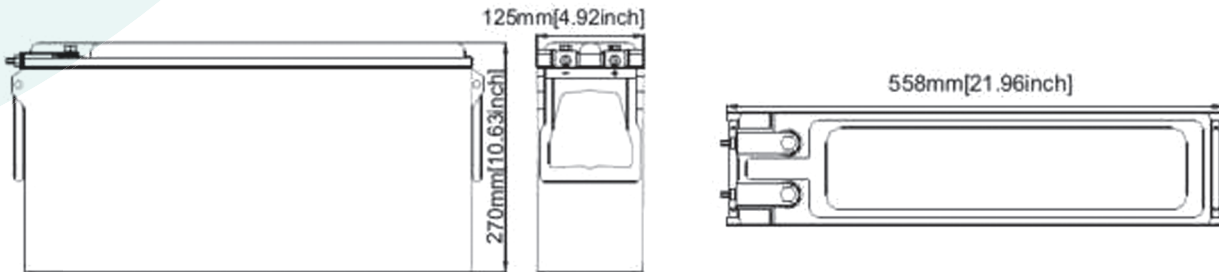
Construction

- Component.....Raw material
- Sealant.....Epoxy Resin
- PositiveLead dioxide
- Safety valveEPDR
- NegativeLead

- TerminalCopper
- CoverABS
- ElectrolyteSulfuric acid
- SeparatorFiber glass
- ContainerABS

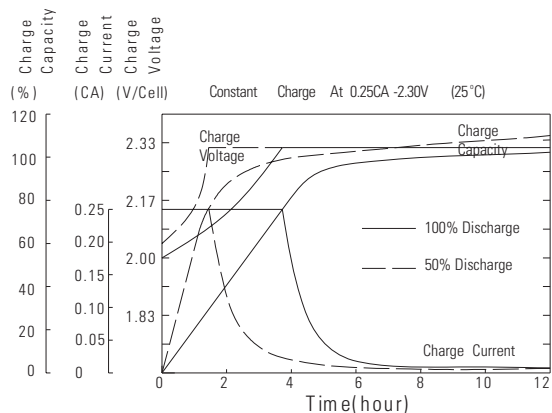


Terminal Dimensions

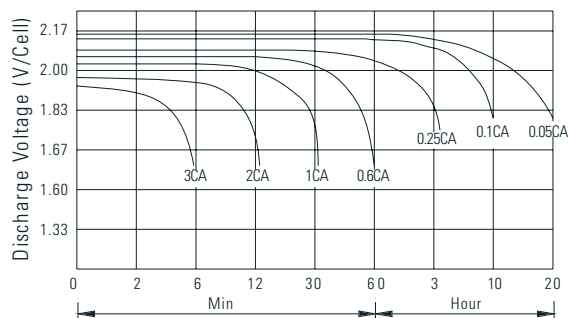


| Battery Model | ESL 125-12FT | | | |
|-----------------------------------|---|--------------------|----------------------|------------------|
| Designed Floating Life | 12 Years | | | |
| Capacity (25°C) | 20HR(6.35A, 1.75V) | 10HR(12.5A, 1.75V) | 5HR(21.4A, 1.75V) | 1HR(81A, 1.75V) |
| | 127AH | 125AH | 107AH | 81AH |
| Dimensions | Length | Width | Height | Total Height |
| | 558mm(21.96inch) | 125mm(4.92inch) | 270mm(10.63inch) | 270mm(10.63inch) |
| Approx. Weight | 16.5Kg (36.4 lbs) | | | |
| Internal Resistance | Full charged at 25°C | | | |
| Self Discharge | 3% of capacity declined per month at 25°C | | | |
| Capacity Affected by Temp. (20HR) | 40°C | 25°C | 0°C | -15°C |
| | 102% | 100% | 85% | 65% |
| Charge Voltage (25°C) | Cycle use | | Float use | |
| | 14.4-15V(-30mV/°C), max. Current: 31,3A | | 13.6-13.8V(-20mV/°C) | |

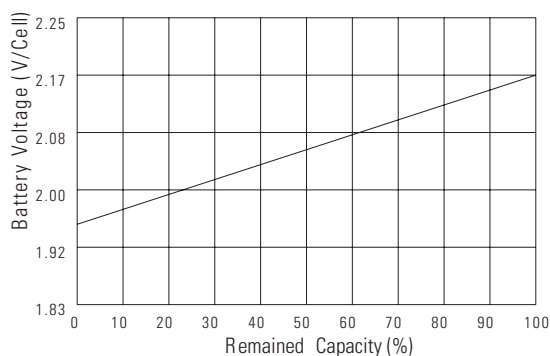
Charge Characteristics



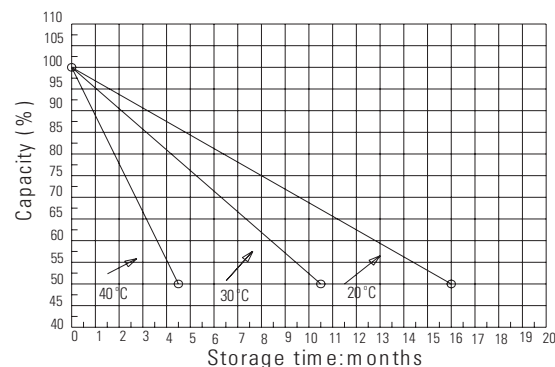
Discharge Characteristics



Relationship of OCV and state of charge



Self Discharge Characteristics



Constant current discharge ratings-amperes at 25°C

| FV/Time | 1MIN | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 4HR | 5HR | 10HR | 20HR |
|---------|------|------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 624 | 445 | 305 | 222 | 133 | 83.8 | 34.7 | 28.1 | 24.2 | 13.5 | 6.96 |
| 1.67V | 562 | 400 | 278 | 216 | 130 | 83.7 | 34.5 | 28.0 | 24.0 | 13.3 | 6.93 |
| 1.70V | 533 | 380 | 268 | 208 | 127 | 83.4 | 34.5 | 28.0 | 24.0 | 13.2 | 6.93 |
| 1.75V | 474 | 338 | 248 | 197 | 124 | 82.6 | 34.3 | 27.8 | 23.8 | 12.9 | 6.90 |
| 1.80V | 428 | 305 | 230 | 188 | 121 | 81.5 | 34.2 | 27.6 | 23.6 | 12.7 | 6.66 |
| 1.85V | 325 | 231 | 189 | 163 | 111 | 80.6 | 34.0 | 27.4 | 23.4 | 12.5 | 6.26 |

Constant power discharge ratings-watts at 25°C

| FV/Time | 1MIN | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 4HR | 5HR | 10HR | 20HR |
|---------|------|------|-------|-------|-------|-----|------|------|------|------|------|
| 1.60V | 1029 | 733 | 505 | 394 | 251 | 165 | 66.5 | 53.9 | 46.4 | 26.9 | 13.9 |
| 1.67V | 976 | 695 | 499 | 390 | 246 | 160 | 66.5 | 53.9 | 46.4 | 26.5 | 13.9 |
| 1.70V | 911 | 649 | 486 | 384 | 240 | 155 | 66.5 | 53.9 | 46.4 | 26.3 | 13.9 |
| 1.75V | 849 | 605 | 455 | 361 | 234 | 154 | 65.5 | 53.2 | 45.8 | 25.9 | 13.8 |
| 1.80V | 762 | 542 | 423 | 339 | 227 | 151 | 64.6 | 52.4 | 45.1 | 25.4 | 13.3 |
| 1.85V | 610 | 434 | 351 | 296 | 208 | 150 | 64.4 | 51.9 | 44.5 | 25.0 | 12.5 |